



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 09/775,069

Filing Date: February 1, 2001

**Not Executed**

Applicant: Mourou

Group Art Unit: 1725

Examiner: G. Evans

Title: METHOD FOR CONTROLLING CONFIGURATION OF  
LASER INDUCED BREAKDOWN AND ABLATION

Attorney Docket: 2115D-000939/DVD

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Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**DECLARATION UNDER 37 CFR 1.131**

**RECEIVED**  
NOV 28 2002  
**TC 1700**

The undersigned hereby declare that:

1. We are the inventors of the subject matter described and claimed in the above identified patent application, serial no. 09/775,069 which is a divisional of reissue application serial no. 366,685, which is a reissue application of patent no 5,656,186 filed April 8, 1994, as Serial No. 08/224,961.

2. Prior to March 31, 1994, invention disclosure materials concerning the subject matter of the above identified patent application were submitted to the

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Technology Management Office of the University of Michigan and to its outside counsel, Linda Deschere. Such invention disclosure materials included, but were not limited to, the documents contained in Exhibit 1 attached hereto. Such documents are entitled a) Sub-Wavelength Micro-Machining by Ultrafast Laser Ablation; b) Laser-Induced Breakdown by Impact Ionization in SiO<sub>2</sub> with Pulse-widths from 7 ns to 150 fs; and c) Damage Threshold as a Function of Pulse Duration in Biological Tissue. The materials of Exhibit 1 were not published prior to filing of the Application Serial No. 08/224,961.

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Detao Du	Date	Xinbing Liu	Date
Subrata Dutta	Date	Peter Pronko	Date
Victor Elner	Date	Jeffrey Squier	Date
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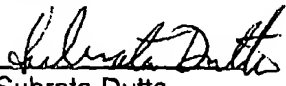
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10-13-02  
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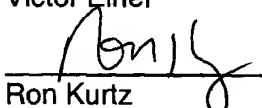
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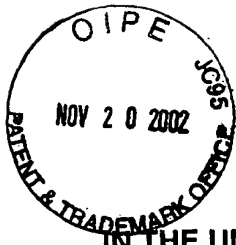
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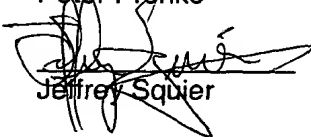
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11. The undersigned acknowledge that willful false statements and the like are punishable by fine or imprisonment, or both (18 USC 1001) and may jeopardize the validity of the application or any patent issuing thereon. The undersigned declares that all statements made of the declarant's own knowledge are true and that all statements made on information and belief are believed to be true.

Gerard Mourou	Date	Paul Lichter	Date
Detao Du	Date	Xinbing Liu	Date
Subrata Dutta	Date	Peter Pronko	Date
Victor Elner	Date	 Jeffrey Squier	Date 10/15/02
Ron Kurtz	Date		



#(6) 11(2)12  
1)  
**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 09/775,069  
Filing Date: February 1, 2001  
Applicant: Mourou  
Group Art Unit: 1725  
Examiner: G. Evans  
Title: METHOD FOR CONTROLLING CONFIGURATION OF  
LASER INDUCED BREAKDOWN AND ABLATION  
Attorney Docket: 2115D-000939/DVD

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**DECLARATION UNDER 37 CFR 1.131**

**RECEIVED**  
NOV 20 2002  
TC 1700

The undersigned hereby declare that:

1. We are the inventors of the subject matter described and claimed in the above identified patent application, serial no. 09/775,069 which is a divisional of reissue application serial no. 366,685, which is a reissue application of patent no 5,656,186 filed April 8, 1994, as Serial No. 08/224,961.

2. Prior to March 31, 1994, invention disclosure materials concerning the subject matter of the above identified patent application were submitted to th-

**Mourou**

Technology Management Office of the University of Michigan and to its outside counsel, Linda Deschere. Such invention disclosure materials included, but were not limited to, the documents contained in Exhibit 1 attached hereto. Such documents are entitled a) Sub-Wavelength Micro-Machining by Ultrafast Laser Ablation; b) Laser-Induced Breakdown by Impact Ionization in SiO<sub>2</sub> with Pulse-widths from 7 ns to 150 fs; and c) Damage Threshold as a Function of Pulse Duration in Biological Tissue. The materials of Exhibit 1 were not published prior to filing of the Application Serial No. 08/224,961.

3. It is our understanding that prior to March 31, 1994, the Technology Management Office of the University of Michigan requested that attorney Linda Deschere prepare a patent application based on the invention disclosure.

4. It is our understanding that attorney, Linda Deschere prepared a draft of the above identified patent application at least as early as March 31, 1994. On Thursday, March 31, 1994, Linda Deschere sent such draft patent application via facsimile to Mitchell A. Goodkin which was forwarded to us for review. A copy of the letter dated March 31, 1994 transmitting the draft patent application is attached as Exhibit 2.

5. At least as early as March 31, 1994, at least a set of claims for the draft of the above identified patent application was sent to inventor, Peter Pronko. On Thursday, March 31, 1994, Peter Pronko sent his comments regarding the claims for

the patent application to Linda Deschere. A copy of the facsimile cover transmitting Mr. Pronko's comments is attached as Exhibit 3.

6. On Tuesday, April 5, 1994, inventors, Jeff Squier and Gerard Mourou, sent their comments regarding the draft patent application of March 31, 1994 to Linda Deschere. A copy of the facsimile cover transmitting comments of Jeff Squier and Gerard Mourou is attached as Exhibit 4.

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Gerard Mourou

11/12/02  
Date

\_\_\_\_\_  
Paul Lichter

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Date

\_\_\_\_\_  
Detao Du

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Date

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Xinbing Liu

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\_\_\_\_\_  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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Filing Date: February 1, 2001  
Applicant: Mourou  
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Liu

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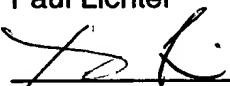
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<u>Gerard Mourou</u>	<u>Date</u>	<u>Paul Lichter</u>	<u>Date</u>
			<u>10-15-02</u>
<u>Detao Du</u>	<u>Date</u>	<u>Xinbing Liu</u>	<u>Date</u>
<u>Subrata Dutta</u>	<u>Date</u>	<u>Peter Pronko</u>	<u>Date</u>
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